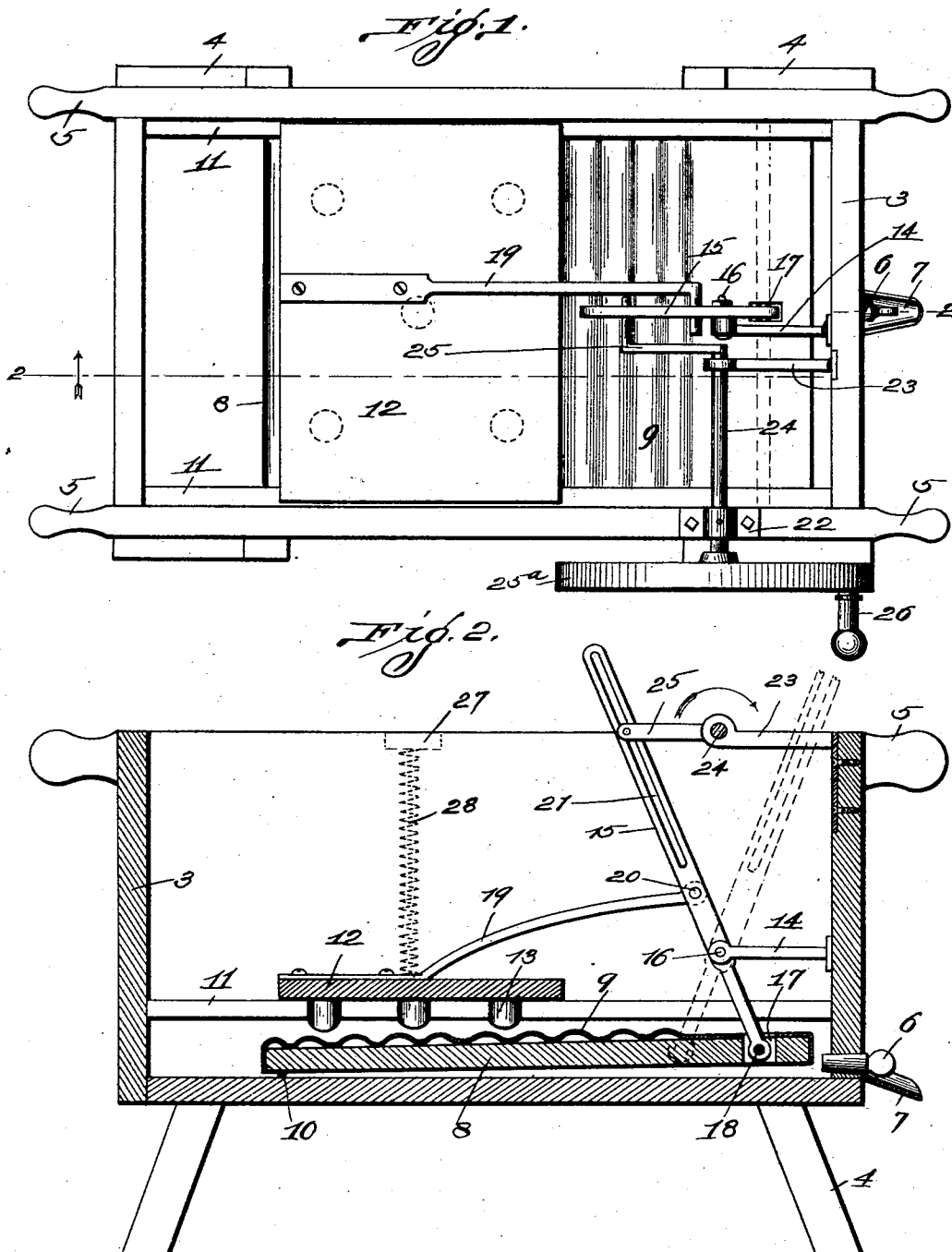


(No Model.)

W. H. HENINGER.
WASHING MACHINE.

No. 588,147.

Patented Aug. 17, 1897.



Attest
M. Smith
S. G. Wells.

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UNITED STATES PATENT OFFICE.

WILLIAM HENRY HENINGER, OF OMEGA, ILLINOIS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 588,147, dated August 17, 1897.

Application filed March 22, 1897. Serial No. 628,752. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY HENINGER, of the city of Omega, Marion county, State of Illinois, have invented certain new and useful Improvements in Washing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to washing-machines; and it consists in the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

Figure 1 is a top plan view of a washing-machine constructed in accordance with the principles of my invention. Fig. 2 is a vertical sectional view taken longitudinally of the machine and approximately on the line 2 2 of Fig. 1 and looking in the direction indicated by the arrow.

In the construction of a washing-machine in accordance with the principles of my invention I employ a suitable receptacle for containing water and clothes, which receptacle may be in the form of the rectangular box 3, which box is supported by the legs 4 and has the handles 5 projecting from its ends and near its upper sides. Formed in one of the end pieces of the box and near the lower edge of said end piece is an opening in which is inserted the plug 6, and through which opening the water may be drawn from the box, and a spout 7 is attached to the box in position below the plug 6 for the purpose of conducting the water into a pail or other suitable receptacle.

The lower rubbing-board 8 is placed loosely within the box, and said rubbing-board is somewhat shorter than the box and nearly as wide as the bottom of the box. A corrugated sheet-metal plate 9 is attached to the upper surface of the rubbing-board 8, and the projection 10 extends downwardly from one end of said board and rests upon the bottom of the box. The cleats 11 are mounted in parallel positions and attached to the inner faces of the side pieces of the box a short distance above the ends of the rubbing-board 8.

The upper rubbing-board 12 is approximately one-half as long as the lower rubbing-board 8 and is placed in position in the box with its ends resting upon the cleats 11. The

wooden pins 13 project from the lower face of the rubbing-board 12, and the lower ends of said pins are rounded and operate in close proximity to the corrugations of the sheet 9.

An arm 14 projects from one of the end pieces of the box in a position a slight distance above the cleats 11 and approximately half-way between said cleats. The lever 15 is pivotally connected to the free end of the arm 14 by means of the pin 16, and the extreme lower end of said lever is inserted into the opening 17, formed through the lower rubbing-board 8 and through the corrugated sheet 9, and said rubbing-board 8 is pivotally connected to said lever 15 by means of the pin 18, which pin is inserted horizontally through the end of the rubbing-board 8 and through the lower end of said lever 15. The arm 19 is attached to the upper rubbing-board 12 and projects upwardly and is attached to the lever 15 by means of the pin 20, which pin is inserted through said arm and through said lever 15 at a point somewhat above the pin 16.

The aperture or slot 21 is formed through the upper part of the lever 15 and extends from a point a short distance above the pin 20 nearly to the extreme upper end of said lever 15. The bearing 22 is attached to the upper edge of one of the side pieces of the box, and the arm 23 is attached to the end piece of the box to which the arm 14 is attached and projects horizontally from the upper edge of said end piece. The arm 23 is substantially the same length as the arm 14, and in its free end is formed a bearing, which bearing is in alinement with the bearing 22, and the crank-shaft 24 is mounted in said bearings. The crank 25, extending from the inner end of the crank-shaft 24, operates in the slot 21 in the lever 15. The balance-wheel 25^a is fixed to the outer end of the crank-shaft 24 and outside of the bearing 22, and a handle 26 is attached to said wheel for operating the same. After a suitable amount of water has been placed in the box 3 the upper rubbing-board 12 is raised and the clothes placed upon the corrugated plate 9 and between the rubbing-boards. The operator then turns the wheel 25^a and the rubbing-boards are reciprocated in opposite directions relative to each other, and the weight of the up-

per rubbing-board 12 presses the clothes upon the lower rubbing-board.

A washing-machine of my improved construction is simple and inexpensive, easy of operation, and will produce very satisfactory results. If it is found that the rubbing-board 12 is not heavy enough, the bar 27 may be placed transversely of the washing-machine between the upper edges of the side pieces 5, and the expansive coil-spring 28 may be inserted between said bar 27 and the rubbing-board 12, the bar and coil-spring being shown in dotted lines in Fig. 2.

A treadle, foot-power, or other suitable means may be substituted for the crank for operating the machine without departing from the spirit of my invention.

I claim—

In a washing-machine, a suitable box-shaped receptacle, the lower rubbing-board 8 placed loosely within the receptacle, the projections 10 extending downwardly from one end of the rubbing-board and resting upon the bottom, the cleats 11 mounted in horizontal positions above the rubbing-board and

attached to the inner faces of the sides of the receptacle, the upper rubbing-board 12 slidably mounted upon said cleats 11, the wooden pins 13 projecting from the lower face of said rubbing-board 12, the arm 14 projecting inwardly from one end of the receptacle, the lever 15 pivotally connected to the free end of the arm 14 and to the lower rubbing-board 8, the arm 19 attached to the upper rubbing-board 12 and to the lever 15, the bearing 22 mounted upon the receptacle, the arm 23 projecting inwardly from one end of the receptacle and having a bearing in its inner end in alinement with said bearing 22, the crank-shaft 24 mounted in said bearings 22 and 23, the crank 25 extending from the inner end of said crank-shaft and operating in the slot 21 formed in the lever 15, and means of operating said crank-shaft, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM HENRY HENINGER.

Witnesses:

A. W. ROOKS,
L. H. JOHNSON.